Name	Period	On Time	Late	Score
		o		

4.3 Dots and Push-ups Assignment

Find the slope of the line that goes through each pair of points.

1. (3, 7) and (5, 10)

3. (0,0) and (-2,5)

2. (-1, 4) and (3, 3)

4. (-1, -5) and (-4, -5)

Find the next 3 terms in each sequence. Identify the constant difference. Write recursive equations for the following arithmetic sequences, and then write the explicit equation. Identify where you see the constant difference in both equations.



Constant difference _____ Recursive Equation: Explicit Equation:



Constant difference _____ Recursive Equation: Explicit Equation:



Constant difference _____ Recursive Equation: Explicit Equation:

a cor	stant ratio, and give the constant difference/ratio.		
8.	5, 10, 15, 20	9.	20, 10, 5, 2.5
	Constant difference or constant ratio?		Constant difference or constant ratio?
	The constant difference /ratio is		The constant difference /ratio is
10.	2, 5, 8, 11, 14	11.	30, 24, 18, 12, 6
	Constant difference or constant ratio?		Constant difference or constant ratio?
	The constant difference /ratio is		The constant difference /ratio is
	rmine whether each sequence represents and arithmetic of xplicit rule for each sequence.	r geon	netric sequence and then write the recursive rule and
12.	4, 1, -2, -5,	13.	2, -6, 18, -54,
	Arithmetic or Geometric?		Arithmetic or Geometric?
	Recursive:		Recursive:
	Explicit:		Explicit:
14.	$\frac{1}{5}$, $\frac{3}{10}$, $\frac{2}{5}$, $\frac{1}{2}$,	15.	$\frac{1}{3}, \frac{2}{9}, \frac{4}{27}, \frac{8}{81}, \dots$
	Arithmetic or Geometric?		Arithmetic or Geometric?
	Recursive:		Recursive:
	Explicit:		Explicit:

Find the missing values for each arithmetic or geometric sequence. Then say if the sequence has a constant difference or